Form PTO/SA08B (10-01)
Approved for use through 10/31/2002, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Subst	tute for form 1449/	APTO		Complete if Known		
				Application Number		
INFO	RMATION E	olsci	OSURE	Filing Date	December 5, 2001	
	TEMENT BY			First Named Inventor	Davis T.W. Ng	
1				Art Unit		
(U	(Use as many sheets as necessary)			Examiner Name		
Sheet	1	of	2	Attorney Docket Number	P05424UW1	

	U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No.1	Document Number Number - Kind Code ² (if known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
AN		US-6,153,376	11/28/2000	Bussey, et al.			
7 7 7		US-					
		US-					
		US-					
		US-					
		US-					
		US					
		US-					
		US-					
		US -					
		US-					
		US-					
		US-					
	*	US-					
		US-					
		US-					
		US-					

ţ.

	FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No.1	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	τ"	
	 						
	Ì					1	

Examiner	1	$\Lambda I = \Lambda$	Date	ľ	10 1	_
Signature	11'	Vosel	Considered	1	1201	<u>04</u>

^{*}EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional)... 2 See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

8 Applicant is to place a check mark here if English language Translation is attached.

8 Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Form PTO/SB/08B (10-01)
Approved for use through 10/31/2002. OMB 0551-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute	for form 1449	в/РТО		Complete if Known		
				Application Number		
INFOR	MATION	DISCLO	SURE	Filing Date	December 5, 2001	
	EMENT B			First Named Inventor	Davis T.W. Ng	
0.,,,,				Group Art Unit		
(Use	(Use as many sheets as necessary)			Examiner Name		
Sheet	2	of	2	Attorney Docket Number	P05424US1	

	.,	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	1 2
W,		Herscovic, A.; et al., "Glycoprotein biosynthesis in yeast", The FASEB J., 7:540-555 (1993)	
M		Gentzsch, M., et al., "Protein-O-glycosylation in yeast: protein-specific mannosyltransferases", Mycobiology, 7(4):481-586 (1997)	
γ)/		Gentzsch, M., et al., "The PMT gene family: protein O-lycosylation in Saccharomyces cerevislae is vital", The EMBO J., 15(21):5752-5759 (1996)	
NA		Gietz, et al., "Genetic Transformation of Yeast", BioTechniques 30:816-831 (April 2001)	1
M		Strahl-Bolsinger, S., et al., "Protein O-mannosylation", <u>Biochimica et Biophysica Acta</u> 1426: 297-307 (1999)	
M		Wang, et al., "Transformation systems of non-Saccharomyces Yeasts", <u>Critical Reviews in</u> <u>Biotechnology</u> 21(3):177-218 (2001)	
-54			
			8
			1 -
	1		

Examiner Signature	Migd	Date Considered	1/20/	ργ

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

^{*} EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Form PTO/SA08B (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Substitute for form 1449A/PTO

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet of

C mplete if Known					
Application Number	10/004,968	11.			
Filing Date	December 5, 2001	~~~			
First Named Inventor	NG, Davis T.W., et al	9			
Art Unit	1645	1/2 5			
Examiner Name		700			
Attorney Docket Number	P05424US1	160			

			U.S. PA	FENT DOCUMENTS	of the second
Examiner Initials	Cite No.1	Document Number Number - Kind Code ² (if known)		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MV	1	US- 5,714,377	02-03-1998	Tanner	
		US-			
		US-			
		US-			
		US-	_		
	1	US-			
		US-			
	T -	US-			
		US-			
		US-			
		US-			

-	FOREIGN PATENT DOCUMENTS							
Examiner Initials *	Cite No.1	Foreign Patent Document Country Code ⁸ -Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	τ.•		
SON	2	PCT/US 01/47319	04/08/2003	Penn State - International Search Report				
W	3	WO 94/26873	11/24/1994	Kabi Pharmacia, Ernst				

The state of the s			
Examiner Mozel	Date Considered	1/20/04	

^{*}EXAMINER: Initial If reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional)... ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

Applicant is to place a check mark here if English language Translation is attached.

Burdon Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Form PTO/SB/088 (10-01)
Approved for use through 10/31/2002, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Substitute for form 1449B/PTO

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of

Complete If Known					
10/004,968	7				
December 5, 2001	C				
NG, Davis T.W.,	4				
1645	0				
	Ch. 9				
P05424US1	With On				
	10/004,968 December 5, 2001 NG, Davis T.W., 1645				

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	24
Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), data, page(s), volume-issue numbor(s), publisher, city and/or country where published.	300
M	4	"Distinct retrieval and retention mechanisms are required for the quality control of endoplasmic reticulum protein folding" The Journal of Cell Bioilogy, Vol. 155, No. 3, 10/29/2001	
M	5	"Functional and Genomic Analyses Reveal an Essential Cordination between the Unfolded Protein Response and ER-Associated Degradation* Cell, Vol. 101, 249-258, 4/28/2000	
M M	6	Construction of phosphatidylethanolamine-less strain of Saccharomyces cerevislae. Effect on amino acid transport" Institute of Cell Biology and Plant Physiology; Research Article Yeast 2001; 18:251-260.	
N	7	Communication XP-002097300 "The BST1 Gene of ISaccharomyces cerevisiae <i>Is the Sphingosine-1-phosphate Lyase</i> " The Journal of Biological Chemistry, Vol. 272, No. 42, 10/17/1997	

Examiner Signature Date Considered 1/2/04	
digitation // - Ct	_

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

[•] EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.